

REMARKS

Claim Rejections

Claims 1-12 are rejected under 35 U.S.C. § 112, second paragraph. Claims 1-12 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Jinda et al. (US 6,977,636) in view of Ham et al. (US Pub. 2004/0119730).

Revocation of Power of Attorney and Appointment of New Attorney

Applicant is enclosing herewith a Revocation of Power of Attorney and Appointment of New Attorney naming BRUCE H. TROXELL as attorney of record in this patent application. Also included herein is a CHANGE OF ADDRESS notification. It is requested that all further correspondence regarding this matter be forwarded to TROXELL LAW OFFICE, PLLC at the address listed on the enclosed form.

Drawings

It is noted that the Examiner has accepted the drawings as originally filed with this application.

Claim Amendments

By this Amendment, Applicant has canceled claims 2 and 7 and amended claims 1, 3, 6, and 8 of this application. It is believed that the amended claims specifically set forth each element of Applicant's invention in full compliance with 35 U.S.C. § 112, and define subject matter that is patentably distinguishable over the cited prior art, taken individually or in combination.

Referring Fig.9 and related descriptions in the specification of Jinda et al., column 7, line 35-49, "a" represents a target data value, "b1" represents a data value greater than the target data value "a", and "b2" represents a data value of the current image signal. Therefore, in Jinda et al., the driving method thereof just applies a data value larger than the target data value first and applies the current data value equal to the target data value later. In this case, the input image signal changes from small image data to large image data. It should be noted that how the data value "b1" greater than the target data value is not disclosed.

The present invention is significantly different from Jinda et al. for the following reasons:

1. First, according to amended claim 1 of the present invention, the technical feature "delaying the frame data to produce a plurality of corresponding delayed frame data" is disclosed in the present invention while it is not taught in Jinda et al.
2. Second, the technical feature "producing an over-drive data voltage pulse, the value of which is decided by comparing a present frame datum with its corresponding delayed frame datum" disclosed in claim 1 of the present invention is also not taught in Jinda et al.
3. Third, more particularly, the present invention discloses the detailed way to decide the value of an over-drive data voltage pulse. Referring to Fig.6 and related descriptions in the specification of the present invention (third paragraph in detailed description), an over-drive data value is defined according to the difference between the previous and the current data values and there are three conditions. As shown in Fig.6, when the current data value $G(n+1)$ is larger than the previous data value $G(n)$, the over-drive data value $G(n,n+1)$ is larger than $G(n+1)$. When the current data value $G(n+2)$ is smaller than the previous data value $G(n+1)$, the over-drive data value $G(n+1,n+2)$ is smaller than $G(n+1)$. When the current data value $G(n+3)$ is equal to the previous data value $G(n+2)$, the over-drive data value $G(n+2,n+3)$ is equal to $G(n+3)$. Jinda et al. fail to teach the way of determining an over-drive data value adopted in the present invention.

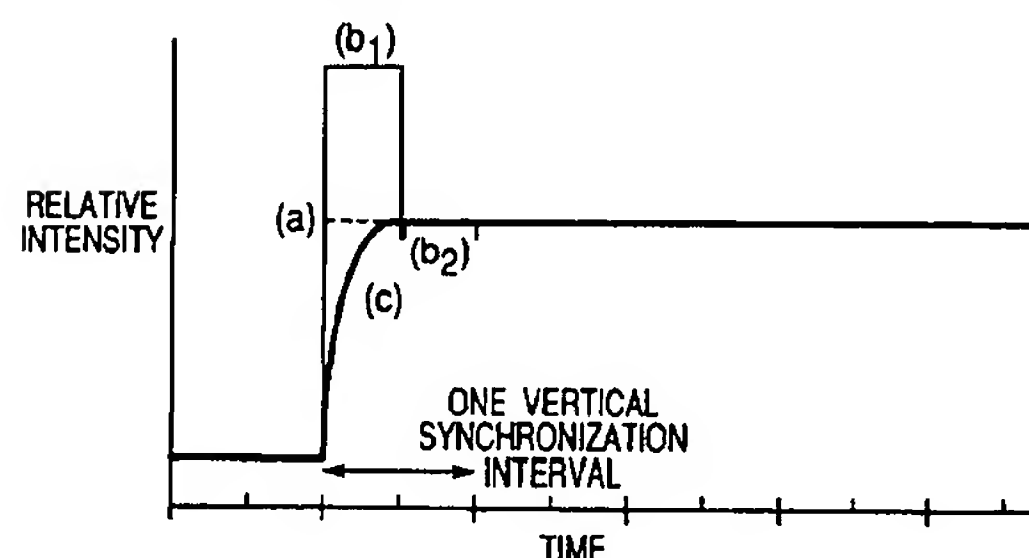


Fig.9 of the prior art of Jinda

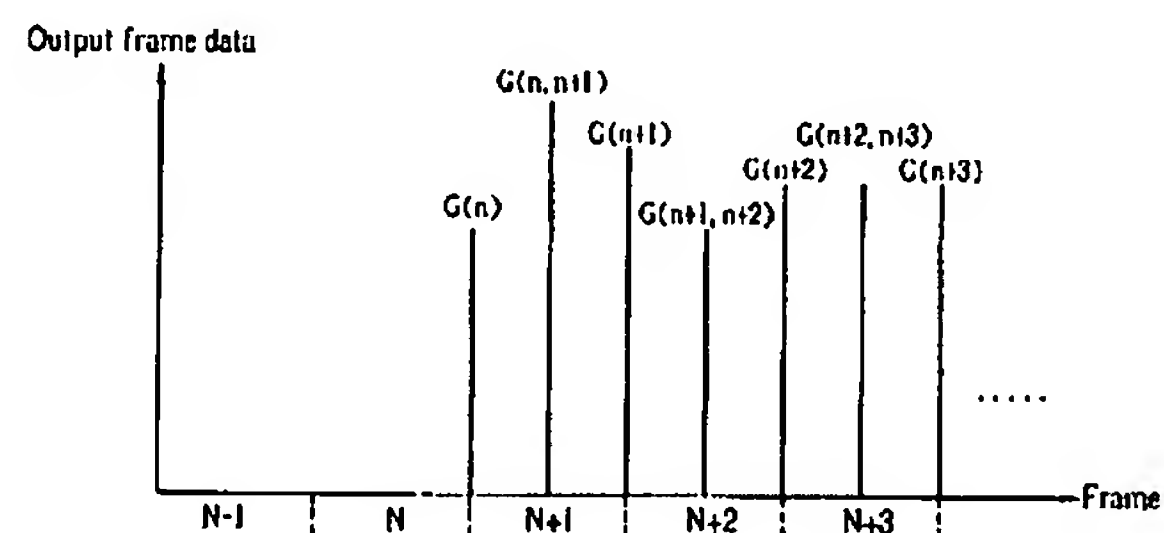


Fig.6 of the present invention

As described by Examiner, the cited prior art of Ham et al. discloses a liquid crystal device panel comprising a plurality of scan lines, a plurality of data lines, and a plurality of pixels, wherein each pixel has a switching element and a liquid crystal element. Compared with the present invention, Ham et al. fail to disclose the main technical features of the present invention concerning producing a plurality of corresponding delayed frame data by delaying the plural frame data and the way to decide the value of an over-drive data voltage pulse mentioned above.


Neither Jinda et al. nor Ham et al. disclose, or suggest a modification of their specifically disclosed structures that would lead one having ordinary skill in the art to arrive at Applicant's claimed structure. Applicant hereby respectfully submits that no combination of the cited prior art renders obvious the amended claims.

Summary

In view of the foregoing amendments and remarks, Applicant submits that this application is now in condition for allowance and such action is respectfully requested. Should any points remain in issue, which the Examiner feels could best be resolved by either a personal or a telephone interview, it is urged that Applicant's local attorney be contacted at the exchange listed below.

Respectfully submitted,

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